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OBSERVED DATA CD-ROMS (Page 1 of 3)

1. Integrated Surface Weather Observations (CDISH)

The global surface hourly observations contained on this CD-ROM series are integrated from all of the NCDC and Navy surface hourly data (TD3280), NCDC hourly precipitation data (TD3240), and Air Force DATSAV3 surface hourly data (TD9956). Hourly and synoptic type data for approximately 12,000 global stations are available for 1995-2000. There are a total of 24 volumes separated by geographic region and time period. A station list and map interface allows the user to easily select the data in either Integrated Surface Hourly format or delimited/abbreviated format. Various elements such as temperature, dew point, wind speed and direction, sea level pressure, visibility, cloud ceiling, present weather, precipitation, snowfall, snow depth, altimeter setting, station pressure, etc are available, as reported by each station. Each volume contains all the software, support files, and documentation so each volume may be used alone or in combination with other volumes for each time period. This product was developed for a Windows environment; MacIntosh and Unix versions are not supported using the map interface. Each Volume. **\$100.00**

2. Hourly United States Weather Observations (1990-1995) (CDHUSW)

The CD contains over 12 million hourly weather observations from 262 National Weather Service stations nationwide. This updates an earlier set of CD's (SAMSON) covering the period 1961-1990. It has a map interface and station list for data selection, or the user can copy the data files direct from the CD (without using the interface). The elements included are: Total and opaque sky cover, temperature and dew point, relative humidity, station pressure, wind direction (true north) and speed, visibility, ceiling height, present weather, ASOS cloud layer data, snow depth, and hourly precipitation. Data can be output in either English or metric units. The project was partly funded by the Environmental Protection Agency (EPA). **\$175.00**

3. Solar and Meteorological Surface Observation Network (SAMSON) (CDSAMS)

The Solar and Meteorological Surface Observation Network (SAMSON) 3-volume CD-ROM set is divided geographically into regions: Eastern, Central, and Western U.S. It contains hourly solar radiation data along with selected meteorological elements for the period 1961-1990. It encompasses 237 NWS stations in the United States, plus offices in Guam and Puerto Rico. The data set includes both observational and modeled data. The hourly solar elements are: Extraterrestrial horizontal and extraterrestrial direct normal radiation; global, diffuse, and direct normal radiation. Meteorological elements are: Total and opaque sky cover, temperature and dew point, relative humidity, pressure, wind direction (true north) and speed, visibility, ceiling height, present weather, precipitable water, aerosol optical depth, snow depth, days since last snowfall, and hourly precipitation. Joint NCDC and NREL product. DOS only. Eastern, Central, or Western Region (each): **\$175.00**
Complete Set: **\$525.00**

4. NCDC Cooperative Station Data (CDCOOP)

These CD-ROMs contain ASCII data files and associated station history files for the Cooperative Summary of the Day (TD3200) data set. The data set is a compilation of daily observations from more than 20,000 cooperative weather stations in the United States, U.S. Caribbean Islands, U.S. Pacific Islands, and Puerto Rico. Available data includes air and soil temperatures, rainfall, snowfall, and evaporation elements. A map interface has also been added for ease of use. The period of record varies among stations but falls within the period from the 1850s through 2001. Eastern, Central, and Western US Volumes available. Per Volume **\$100.00**
Complete Set: **\$275.00**

5. Cooperative Summary Of The Day – CDMP – Pre 1948 (DSI-3206) (CD3206)

This CD-ROM contains data which were rescued under the Climate Data Modernization Program (CDMP). The daily observations generally date back to the late 1890's and end around 1948, and were initially obtained from state universities, state cooperatives, and the National Weather Service. The period of record and number of stations varies among the states, and includes data for the 50 states, Puerto Rico and the U.S. Virgin Islands. Parameters included within this dataset are: temperatures at the time of observation and 7 a.m., 2 p.m. and 9 p.m.; daily maximum, minimum and mean temperatures; total precipitation amount, snowfall, and depth of snow on the ground; prevailing wind direction and total wind movement; evaporation; sky condition; and the occurrence of weather and obstructions to vision. The TD-3206 database is separate from the standard TD-3200 cooperative network database. Although their formats are the same, the two databases have not been compiled in the same manner. Also, there are some data overlaps between the two that have not been examined. Plans call for merging the two databases into one comprehensive database in the future. This CD contains no software or extraction routines which allow the user to import data directly into spreadsheets or other applications. Additional documentation can be found at: <http://www4.ncdc.noaa.gov/ol/documentlibrary/datasets.html>. Data are compressed ASCII files and require Gunzip or Winzip for decompression. **\$100.00**

6. Global Summary of the Day: (1973-1993) (CDGSOD)

This 3 CD-ROM set contains Global Summary of the Day (GSOD) data covering 1973-1993 for 18 surface meteorological elements (mean temperature, dew point, sea level pressure, station pressure, visibility, wind speed, maximum sustained wind speed, maximum wind gust, maximum and minimum temperatures, precipitation amount, snow depth, and weather indicators for occurrence of: fog, rain/drizzle, snow/ice pellets, hail, thunder, and tornado/funnel cloud). Data are derived from the synoptic/hourly observations contained in TD9956 (US Air Force DATSAV3 Surface data). For some periods, one or more countries' data may not be available due to data restrictions or communications problems. In deriving the summary of day data, a minimum of 4 observations for the day were required, and in converting data to constant units, slight rounding errors may have occurred. Mean daily values are based on the hours of operation for the station. Daily extremes and totals--maximum wind gust, precipitation amount, and snow depth-- appear only if the station reports sufficient data to provide a valid value. Therefore, these three elements appear less frequently than other values. All weather elements are derived from the stations' reports during the day, and may comprise a 24-hour period which includes a portion of the previous day. Data after 1993 can be found online at: <http://www.ncdc.noaa.gov/cgi-bin/res40.pl?page=gsod.html>. Data are compressed ASCII files and require Gunzip or Winzip for decompression. **\$300.00**

7. Global Daily Climatology Network (CDGDCN)

The Global Daily Climatology Network (GDCN) represents a compilation of global daily timescale data into a single and consistent format. The data set will serve the needs of researchers, weather-sensitive businesses, agriculture, and policy makers who are dependent upon complete and accurate analysis of daily weather data. This 2 disk CD-ROM set contains ASCII format daily surface weather data (maximum and minimum temperature and precipitation) from around the globe. The individual station files, over 30,000 in all, share a common format and have variable record lengths. Metadata information for all stations are included in a single inventory file. In addition, users will find complete documentation available in three popular document formats (.wpd, .doc, and .pdf). This CD-ROM set does not contain import and/or extraction software for processing the data. For more detailed information about this data visit the web site at: <http://www.ncdc.noaa.gov/oa/climate/research/gdcn/gdcn.html>. **\$125.00**

8. Global Daily Summary (1977-1991) (CDGLDA)

This CD-ROM provides access to a 10,000-station set of daily maximum/minimum temperature, daily precipitation, and 3-hourly present weather for the 1977-1991 period of record. Data can be selected for viewing or output to file for geographic areas or by a predefined user-selected list of stations. The data set includes element flags for suspected erroneous data. A data inventory contains station name, latitude/longitude, elevation, period of record, and the number of observations of available data. Accuracy of data is less than that found in the GSOD or GDCN CD-ROM's. Requires minimum of 4 MB with 8MB of RAM recommended. DOS only. **\$175.00**

9. U.S. Hourly Precipitation Data (CDHPD)

These data and software were developed jointly by the NCDC and NOAA's Forecast Systems Laboratory (FSL). Data files contain hourly precipitation amounts for more than 2500 active stations and close to 7000 total stations. The period of record is 1948 through June 1998 although some stations begin in 1900. Access software, available for most UNIX and DOS platforms, is included to extract data from the CD-ROM archive and, if needed, can be used to summarize the data into daily or monthly precipitation quantities. Display software (java-enabled web browser required) will generate zoomable map and time series graphics. Additional information about the data archive and access software is available from the FSL. (Two CD-ROM Set). **\$350.00**

10. Radiosonde Data of North America (1946-1996) (Version 1.0) (CDRADN)

Contains all available radiosonde data for North America (U.S., Canada, Mexico, and Caribbean Islands) through the 100-mb level on four disks. Periods covered are: 1946-1965, 1966-1979, 1980-1989, and 1990-1996. The 1990-1996 data is also available as a separate CD-ROM (\$175.00). Data includes significant, mandatory, and special wind levels for all observation times, and includes geopotential height, temperature, dew point, wind direction, and scalar speed. The user can select for output to printer, screen, or file: a single station or multiple stations for a defined time period, or all stations within a specified geographic region in either synoptic or station sort. The CD contains available station metadata, and software is available to access the data for DOS, UNIX and VMS computer systems. The update includes data above 100mb for the period 1994 through 1997 and requires separate access software. The version 2 software can be found at http://raob.fsl.noaa.gov/Raob_Software.html. Joint NCDC and ERL product. Data collected since the most recent CD can be found at <http://raob.fsl.noaa.gov/>. Four disk set.(1946-1996) **\$700.00**
Latest volume (1994-1997). **\$175.00**

11. Local Climatological Data Annual Summaries (CDLCDA)

This CD-ROM contains Local Climatological Data Annual Summaries for all stations that were published. The annual summary includes that specific years monthly summaries as well as climatic normals and extremes. Tables showing a 30 year monthly history of temperature means, precipitation totals, snow totals, and heating & cooling degree days are also provided. Wind and humidity climatology tables and a monthly tally of rain days, snow days and days within selected temperature thresholds are also included along with a narrative climate description. The publication and CDROM are usually available within 3 - 6 months after the end of the year. Years 2000 / 2001 (Each year). **\$75.00**
Year 2002. **\$100.00**

OBSERVED DATA CD-ROMS (Contd. Page 3 of 3)

12. National Climatic Data Center Periodical Publications (CDPUB)

National Climatic Data Center Periodical Publications: Contains PDF format versions of NCDC serial publications. Monthly issues of Climatological Data (all states), Hourly Precipitation Data (all states), Storm Data, Monthly Climatic Data for the World, and Local Climatological Data (all stations), plus graphics from the publications. The CD-ROM is issued quarterly along with all annual summaries. First issue: Jan-Mar 1998. Time delayed and is issued about six months after each quarter. Adobe Acrobat reader provided on the CD. Each Quarter **\$150.00**
Complete Set: **\$600.00**

13. The Maury Collection Global Ship Observations (1792-1910) (CDMAUR)

To commemorate Maury, NCDC produced a CD-ROM containing ASCII files of nearly 1.5 million historical ships' weather observations covering 1792-1910, with the majority taken during the period 1820-1860. The observations include air and sea temperatures, currents, pressure, cloud cover, present weather and wind direction/speed. The data were digitized from paper copies of hand written forms through the Joint Coordination Panel for Data and Information Cooperation facilitated by NOAA and the government of China. **\$100.00**

14. Global Tropical and Extratropical Cyclone Climatic Atlas (Version 2.0) (CDGTEC)

This single volume CD-ROM contains all global historic tropical storm track data available for five tropical storm basins. Periods of record vary for each basin with the beginning as early as the 1870's and with 1995 as the latest year. Northern hemispheric extratropical storm track data are included from 1965 to 1995. Tropical track data includes time, position, storm stage (and maximum wind, central pressure when available). The user has the capability to display tracks, and track data for any basin or user-selected geographic area. The user is also able to select storm tracks passing within a user-defined radius of any point. Narratives for all tropical storms for the 1980-1995 period are included along with basin-wide tropical storm climatological statistics. Joint NCDC and U.S. Navy product. Requires 520K RAM memory. DOS only. **\$175.00**

15. United States Snow Climatology (CDSNOW)

This 3-disk CD-ROM Set describes the snow climatology of the United States. Snowfall and snow depth data through 1996 were analyzed for 5525 stations in the contiguous U.S. and Alaska. Climatic variables include daily, monthly, and seasonal snowfall and snow depth (snow cover). Computed statistics include mean, median, quartiles, extremes, frequencies, and the number of years with non-missing data. Several indicators were computed, based on the data and metadata, to enable the user to assess the quality of the stations. These include frequencies of station moves and observation time changes, number of missing values and breaks in the record, number of values failing the QC checks, and percentages indicating how complete the data record is. The snow climatology CD-ROM also includes files from two other NCDC projects: return period statistics of seasonal (August-July) 1-day, 2-day, and 3-day extreme snowfall, and total seasonal snowfall amount, for 10-year, 25-year, and 100-year return periods; 1961-1990 snowfall and snow depth normals. The CD-ROM set is a collection of DOS ASCII files; the CD contains no software or extraction routines that allow the user to import data directly into spreadsheets or other applications. Files may be copied from the CD-ROM with the DOS copy command. **\$300.00**

16. Arctic and Antarctic Sea Ice Data (Version 1.0) (CDICE)

The Arctic and Antarctic Sea Ice Data CD-ROM Version 1.0, contains weekly ice data in the International Sea Ice in the Digital Form (SIGRID) format for 1972-1994 for the Arctic and 1973-1994 for the Antarctic. This .25 degree grid structure includes total ice concentration, thickness stage, and form of ice for the complete period of record. The SIGRID format was designed to meet the sea ice requirements of large-scale climate and statistical studies. The CD-ROM contains no display or extraction routines. The SIGRID reference file provides detailed information concerning the coding system for digitizing sea ice chart data. Joint NCDC, U.S. Navy, National Ice Center product. DOS but can be converted to UNIX. **\$100.00**

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